810 - Invoice

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810 Invoice

Functional Group=IN

This Draft Standard for Trial Use contains the format and establishes the data contents of the Invoice Transaction Set (810) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to provide for customary and established business and industry practice relative to the billing for goods and services provided.

Not Defined:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
	ISA	Interchange Control Header	M	1			Must use
	GS	Functional Group Header	M	1			Must use

Heading:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
010	ST	Transaction Set Header	M	1			Must use
020	BIG	Beginning Segment for Invoice	M	1			Must use
LOOP ID - N1					**200**		
070	N1	Name	M	1			Must use
090	N3	Address Information	M	2			Must use
100	N4	Geographic Location	M	1			Must use
LOOP ID - N1					**200**		
070	N1	Name	M	1			Must use
LOOP ID - N1					**200**		
070	N1	Name	M	1			Must use
LOOP ID - N1					**200**		
070	N1	Name	M	1			Must use
130	ITD	Terms of Sale/Deferred Terms of Sale	M	>1			Must use
140	DTM	Date/Time Reference	M	10			Must use

Detail:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
LOOP ID - IT1					**200000**		
010	IT1	Baseline Item Data (Invoice)	M	1			Must use
030	IT3	Additional Item Data	O	5			Used
LOOP ID - PID					**1000**		
060	PID	Product/Item Description	M	1			Must use
LOOP ID - SAC					**25**		
180	SAC	Service, Promotion, Allowance, or Charge Information	O	1			Used

Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
010	TDS	Total Monetary Value Summary	M	1			Must use
030	CAD	Carrier Detail	M	1			Must use
LOOP ID - SAC					**25**		
040	SAC	Service, Promotion, Allowance, or Charge Information	O	1			Used
LOOP ID - ISS					**>1**		

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
060	ISS	Invoice Shipment Summary	M	1			Must use
080	SE	Transaction Set Trailer	M	1			Must use

Not Defined:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
	GE	Functional Group Trailer	M	1			Must use
	IEA	Interchange Control Trailer	M	1			Must use

ISA Interchange Control Header

Pos: **Max: 1**
Not Defined - Mandatory
Loop: N/A   **Elements: 16**

User Option (Usage): Must use

To start and identify an interchange of zero or more functional groups and interchange-related control segments

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
ISA01	I01	**Authorization Information Qualifier**	M	ID	2/2	Must use	1

Description: Code to identify the type of information in the Authorization Information

Code	Name
00	No Authorization Information Present (No Meaningful Information in I02)

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
ISA02	I02	**Authorization Information**	M	AN	10/10	Must use	1

Description: Information used for additional identification or authorization of the interchange sender or the data in the interchange; the type of information is set by the Authorization Information Qualifier (I01)

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
ISA03	I03	**Security Information Qualifier**	M	ID	2/2	Must use	1

Description: Code to identify the type of information in the Security Information

Code	Name
00	No Security Information Present (No Meaningful Information in I04)

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
ISA04	I04	**Security Information**	M	AN	10/10	Must use	1

Description: This is used for identifying the security information about the interchange sender or the data in the interchange; the type of information is set by the Security Information Qualifier (I03)

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
ISA05	I05	**Interchange ID Qualifier**	M	ID	2/2	Must use	1

Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
ISA06	I06	**Interchange Sender ID**	M	AN	15/15	Must use	1

Description: Identification code published by the sender for other parties to use as the receiver ID to route data to them; the sender always codes this value in the sender ID element

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
ISA07	I05	**Interchange ID Qualifier**	M	ID	2/2	Must use	1

Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified

Code	Name
08	UCC EDI Communications ID (Comm ID)

ISA08	I07	**Interchange Receiver ID**	M	AN	15/15	Must use	1

Description: Identification code published by the receiver of the data; When sending, it is used by the sender as their sending ID, thus other parties sending to them will use this as a receiving ID to route data to them

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ISA09	I08	**Interchange Date**	M	DT	6/6	Must use	1

Description: Date of the interchange

ISA10	I09	**Interchange Time**	M	TM	4/4	Must use	1

Description: Time of the interchange

ISA11	I10	**Interchange Control Standards Identifier**	M	ID	1/1	Must use	1

Description: Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer

All valid X12 codes are used.

ISA12	I11	**Interchange Control Version Number**	M	ID	5/5	Must use	1

Description: This version number covers the interchange control segments

Code **Name**

00401   Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1997

ISA13	I12	**Interchange Control Number**	M	N0	9/9	Must use	1

Description: A control number assigned by the interchange sender

ISA14	I13	**Acknowledgment Requested**	M	ID	1/1	Must use	1

Description: Code sent by the sender to request an interchange acknowledgment (TA1)

Code **Name**

0   No Acknowledgment Requested

ISA15	I14	**Usage Indicator**	M	ID	1/1	Must use	1

Description: Code to indicate whether data enclosed by this interchange envelope is test, production or information

Code **Name**

P   Production Data

ISA16	I15	**Component Element Separator**	M		1/1	Must use	1

Description: Type is not applicable; the component element separator is a delimiter and not a data element; this field provides the delimiter used to separate component data elements within a composite data structure; this value must be different than the data element separator and the segment terminator

GS Functional Group Header

Pos:	**Max: 1**
Not Defined - Mandatory	
Loop: N/A	**Elements: 8**

User Option (Usage): Must use

To indicate the beginning of a functional group and to provide control information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
GS01	479	**Functional Identifier Code**	M	ID	2/2	Must use	1

Description: Code identifying a group of application related transaction sets

Code **Name**

IN   Invoice Information (810,819)

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
GS02	142	**Application Sender's Code**	M	AN	2/15	Must use	1

Description: Code identifying party sending transmission; codes agreed to by trading partners

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
GS03	124	**Application Receiver's Code**	M	AN	2/15	Must use	1

Description: Code identifying party receiving transmission. Codes agreed to by trading partners
Dot Foods: *9288030000*

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
GS04	373	**Date**	M	DT	8/8	Must use	1

Description: Date expressed as CCYYMMDD

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
GS05	337	**Time**	M	TM	4/8	Must use	1

Description: Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
GS06	28	**Group Control Number**	M	N0	1/9	Must use	1

Description: Assigned number originated and maintained by the sender

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
GS07	455	**Responsible Agency Code**	M	ID	1/2	Must use	1

Description: Code used in conjunction with Data Element 480 to identify the issuer of the standard

Code **Name**

X   Accredited Standards Committee X12

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
GS08	480	**Version / Release / Industry Identifier Code**	M	AN	1/12	Must use	1

Description: Code indicating the version, release, subrelease, and industry identifier of the EDI standard being used, including

the GS and GE segments; if code in DE455
in GS segment is X, then in DE 480
positions 1-3 are the version number;
positions 4-6 are the release and
subrelease, level of the version; and
positions 7-12 are the industry or trade
association identifiers (optionally assigned
by user); if code in DE455 in GS segment is
T, then other formats are allowed

Code **Name**

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Semantics:

1. GS04 is the group date.
2. GS05 is the group time.
3. The data interchange control number GS06 in this header must be identical to the same data element in the associated functional group trailer, GE02.

Comments:

1. A functional group of related transaction sets, within the scope of X12 standards, consists of a collection of similar transaction sets enclosed by a functional group header and a functional group trailer.

ST   Transaction Set Header

User Option (Usage): Must use

To indicate the start of a transaction set and to assign a control number

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
ST01	143	**Transaction Set Identifier Code**	M	ID	3/3	Must use	1

Description: Code uniquely identifying a Transaction Set

Code	Name
810	Invoice

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
ST02	329	**Transaction Set Control Number**	M	AN	4/9	Must use	1

Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set

Semantics:

1. The transaction set identifier (ST01) used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).

BIG   Beginning Segment for Invoice

User Option (Usage): Must use

To indicate the beginning of an invoice transaction set and transmit identifying numbers and dates

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
BIG01	373	**Date**	M	DT	8/8	Must use	1
		Description: Date expressed as CCYYMMDD					
BIG02	76	**Invoice Number**	M	AN	1/22	Must use	1
		Description: Identifying number assigned by issuer					
BIG03	373	**Date**	M	DT	8/8	Must use	1
		Description: Date expressed as CCYYMMDD					
BIG04	324	**Purchase Order Number**	M	AN	1/22	Must use	1
		Description: Identifying number for Purchase Order assigned by the orderer/purchaser					

Semantics:

1. BIG01 is the invoice issue date.
2. BIG03 is the date assigned by the purchaser to purchase order.
3. BIG10 indicates the consolidated invoice number. When BIG07 contains code CI, BIG10 is not used.

Comments:

1. BIG07 is used only to further define the type of invoice when needed.

N1 **Name**

Pos: 070   **Max: 1**
Heading - Mandatory
Loop: N1   **Elements: 4**

User Option (Usage): Must use

To identify a party by type of organization, name, and code

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
N101	98	**Entity Identifier Code**	M	ID	2/3	Must use	1

Description: Code identifying an organizational entity, a physical location, property or an individual

Code **Name**

RE   Party to receive commercial invoice remittance

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
N102	93	**Name**	M	AN	1/60	Must use	1

Description: Free-form name

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
N103	66	**Identification Code Qualifier**	M	ID	1/2	Must use	1

Description: Code designating the system/method of code structure used for Identification Code (67)

Code **Name**

9   D-U-N-S+4, D-U-N-S Number with Four Character Suffix

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
N104	67	**Identification Code**	M	AN	2/80	Must use	1

Description: Code identifying a party or other code

Syntax Rules:

1. R0203 - At least one of N102 or N103 is required.
2. P0304 - If either N103 or N104 is present, then the other is required.

Comments:

1. This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2. N105 and N106 further define the type of entity in N101.

N3 Address Information

User Option (Usage): Must use

To specify the location of the named party

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
N301	166	**Address Information**	M	AN	1/55	Must use	1
		Description: Address information					
N302	166	**Address Information**	O	AN	1/55	Used	1
		Description: Address information					

N4 Geographic Location

User Option (Usage): Must use

To specify the geographic place of the named party

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
N401	19	**City Name**	M	AN	2/30	Must use	1
		Description: Free-form text for city name					
N402	156	**State or Province Code**	M	ID	2/2	Must use	1
		Description: Code (Standard State/Province) as defined by appropriate government agency					
N403	116	**Postal Code**	M	ID	3/15	Must use	1
		Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States)					

Syntax Rules:

1. C0605 - If N406 is present, then N405 is required.

Comments:

1. A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
2. N402 is required only if city name (N401) is in the U.S. or Canada.

N1 Name

Pos: 070   **Max: 1**
Heading - Mandatory
Loop: N1   **Elements: 4**

User Option (Usage): Must use

To identify a party by type of organization, name, and code

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
N101	98	**Entity Identifier Code**	M	ID	2/3	Must use	1

Description: Code identifying an organizational entity, a physical location, property or an individual

Code   **Name**
BT   Bill-to-Party

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
N102	93	**Name**	M	AN	1/60	Must use	1

Description: Free-form name

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
N103	66	**Identification Code Qualifier**	M	ID	1/2	Must use	1

Description: Code designating the system/method of code structure used for Identification Code (67)

Code   **Name**
9   D-U-N-S+4, D-U-N-S Number with Four Character Suffix

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
N104	67	**Identification Code**	M	AN	2/80	Must use	1

Description: Code identifying a party or other code

Dot Foods: *DUNS number: 0256712560000*

Syntax Rules:

1. R0203 - At least one of N102 or N103 is required.
2. P0304 - If either N103 or N104 is present, then the other is required.

Comments:

1. This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2. N105 and N106 further define the type of entity in N101.

N1 Name

User Option (Usage): Must use

To identify a party by type of organization, name, and code

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
N101	98	**Entity Identifier Code**	M	ID	2/3	Must use	1

Description: Code identifying an organizational entity, a physical location, property or an individual

Code Name
ST   Ship To

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
N102	93	**Name**	M	AN	1/60	Must use	1

Description: Free-form name

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
N103	66	**Identification Code Qualifier**	M	ID	1/2	Must use	1

Description: Code designating the system/method of code structure used for Identification Code (67)

Code Name
9   D-U-N-S+4, D-U-N-S Number with Four Character Suffix

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
N104	67	**Identification Code**	M	AN	2/80	Must use	1

Description: Code identifying a party or other code

Syntax Rules:

1. R0203 - At least one of N102 or N103 is required.
2. P0304 - If either N103 or N104 is present, then the other is required.

Comments:

1. This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2. N105 and N106 further define the type of entity in N101.

N1 Name

Pos: 070   **Max: 1**
Heading - Mandatory
Loop: N1   **Elements: 4**

User Option (Usage): Must use

To identify a party by type of organization, name, and code

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
N101	98	**Entity Identifier Code**	M	ID	2/3	Must use	1

Description: Code identifying an organizational entity, a physical location, property or an individual

Code   **Name**
SF   Ship From

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
N102	93	**Name**	M	AN	1/60	Must use	1

Description: Free-form name

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
N103	66	**Identification Code Qualifier**	M	ID	1/2	Must use	1

Description: Code designating the system/method of code structure used for Identification Code (67)

Code   **Name**
9   D-U-N-S+4, D-U-N-S Number with Four Character Suffix

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
N104	67	**Identification Code**	M	AN	2/80	Must use	1

Description: Code identifying a party or other code

Syntax Rules:

1. R0203 - At least one of N102 or N103 is required.
2. P0304 - If either N103 or N104 is present, then the other is required.

Comments:

1. This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2. N105 and N106 further define the type of entity in N101.

ITD Terms of Sale/Deferred Terms of Sale

User Option (Usage): Must use

To specify terms of sale

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
ITD01	336	**Terms Type Code**	M	ID	2/2	Must use	1

Description: Code identifying type of payment terms

Code	Name
01	Basic

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
ITD02	333	**Terms Basis Date Code**	M	ID	1/2	Must use	1

Description: Code identifying the beginning of the terms period

Code	Name
3	Invoice Date

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
ITD03	338	**Terms Discount Percent**	C	R	1/6	Used	1

Description: Terms discount percentage, expressed as a percent, available to the purchaser if an invoice is paid on or before the Terms Discount Due Date

Dot Foods: *If applicable.*

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
ITD04	370	**Terms Discount Due Date**	C	DT	8/8	Used	1

Description: Date payment is due if discount is to be earned expressed in format CCYYMMDD

Dot Foods: *If applicable.*

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
ITD06	446	**Terms Net Due Date**	M	DT	8/8	Must use	1

Description: Date when total invoice amount becomes due expressed in format CCYYMMDD

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
ITD08	362	**Terms Discount Amount**	C	N2	1/10	Used	1

Description: Total amount of terms discount

Dot Foods: *If applicable.*

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
ITD12	352	**Description**	O	AN	1/80	Recommended	1

Description: A free-form description to clarify the related data elements and their content

Syntax Rules:

1. L03040513 - If ITD03 is present, then at least one of ITD04, ITD05 or ITD13 is required.
2. L08040513 - If ITD08 is present, then at least one of ITD04, ITD05 or ITD13 is required.
3. L091011 - If ITD09 is present, then at least one of ITD10 or ITD11 is required.

Semantics:

1. ITD15 is the percentage applied to a base amount used to determine a late payment charge.

Comments:

1. If the code in ITD01 is "04", then ITD07 or ITD09 is required and either ITD10 or ITD11 is required; if the code in ITD01 is "05", then ITD06 or ITD07 is required.

DTM   Date/Time Reference

User Option (Usage): Must use

To specify pertinent dates and times

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
DTM01	374	**Date/Time Qualifier**	M	ID	3/3	Must use	1

Description: Code specifying type of date or time, or both date and time

Code Name

011   Shipped

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
DTM02	373	**Date**	M	DT	8/8	Must use	1

Description: Date expressed as CCYYMMDD

Syntax Rules:

1. R020305 - At least one of DTM02, DTM03 or DTM05 is required.
2. C0403 - If DTM04 is present, then DTM03 is required.
3. P0506 - If either DTM05 or DTM06 is present, then the other is required.

IT1 Baseline Item Data (Invoice)

User Option (Usage): Must use

To specify the basic and most frequently used line item data for the invoice and related transactions

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
IT102	358	**Quantity Invoiced**	M	R	1/10	Must use	1

Description: Number of units invoiced (supplier units)

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
IT103	355	**Unit or Basis for Measurement Code**	M	ID	2/2	Must use	1

Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

Code	Name
CA	Case
EA	Each
LB	Pound

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
IT104	212	**Unit Price**	M	R	1/17	Must use	1

Description: Price per unit of product, service, commodity, etc.

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
IT106	235	**Product/Service ID Qualifier**	M	ID	2/2	Must use	1

Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)

Code	Name
UK	U.P.C./EAN Shipping Container Code (1-2-5-5-1)

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
IT107	234	**Product/Service ID**	M	AN	1/48	Must use	1

Description: Identifying number for a product or service

Syntax Rules:

1. P020304 - If either IT102, IT103 or IT104 are present, then the others are required.
2. P0607 - If either IT106 or IT107 is present, then the other is required.
3. P0809 - If either IT108 or IT109 is present, then the other is required.
4. P1011 - If either IT110 or IT111 is present, then the other is required.
5. P1213 - If either IT112 or IT113 is present, then the other is required.
6. P1415 - If either IT114 or IT115 is present, then the other is required.
7. P1617 - If either IT116 or IT117 is present, then the other is required.
8. P1819 - If either IT118 or IT119 is present, then the other is required.
9. P2021 - If either IT120 or IT121 is present, then the other is required.
10. P2223 - If either IT122 or IT123 is present, then the other is required.
11. P2425 - If either IT124 or IT125 is present, then the other is required.

Semantics:

1. IT101 is the purchase order line item identification.

Comments:

1. Element 235/234 combinations should be interpreted to include products and/or services. See the Data Dictionary for a complete list of IDs.
2. IT106 through IT125 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

IT3　Additional Item Data

User Option (Usage): Used

To specify additional item details relating to variations between ordered and shipped quantities, or to specify alternate units of measures and quantities

Dot Foods:

It is only necessary to send the IT3 segment if the Quantity Invoiced (IT102), the Quantity Invoiced UOM (IT103), and the Unit Price (IT104) are communicating per pound values, rather than per case values.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
IT301	382	**Number of Units Shipped**	C	R	1/10	Used	1
		Description: Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set					
IT302	355	**Unit or Basis for Measurement Code**	C	ID	2/2	Used	1
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken					

Code	Name
CA	Case

Syntax Rules:

1. P0102 - If either IT301 or IT302 is present, then the other is required.
2. R01030405 - At least one of IT301, IT303, IT304 or IT305 is required.

PID   Product/Item Description

User Option (Usage): Must use

To describe a product or process in coded or free-form format

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
PID01	349	**Item Description Type**	M	ID	1/1	Must use	1

Description: Code indicating the format of a description

Code Name

F   Free-form

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
PID05	352	**Description**	M	AN	1/80	Must use	1

Description: A free-form description to clarify the related data elements and their content

Syntax Rules:

1. C0403 - If PID04 is present, then PID03 is required.
2. R0405 - At least one of PID04 or PID05 is required.
3. C0703 - If PID07 is present, then PID03 is required.
4. C0804 - If PID08 is present, then PID04 is required.
5. C0905 - If PID09 is present, then PID05 is required.

Semantics:

1. Use PID03 to indicate the organization that publishes the code list being referred to.
2. PID04 should be used for industry-specific product description codes.
3. PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate.
4. PID09 is used to identify the language being used in PID05.

Comments:

1. If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used.
2. Use PID06 when necessary to refer to the product surface or layer being described in the segment.
3. PID07 specifies the individual code list of the agency specified in PID03.

SAC   Service, Promotion, Allowance, or Charge Information

Pos: 180	**Max: 1**
Detail - Optional	
Loop: SAC	**Elements: 5**

User Option (Usage): Used

To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
SAC01	248	**Allowance or Charge Indicator**	M	ID	1/1	Must use	1

Description: Code which indicates an allowance or charge for the service specified

Code	Name
A	Allowance
C	Charge

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
SAC02	1300	**Service, Promotion, Allowance, or Charge Code**	C	ID	4/4	Used	1

Description: Code identifying the service, promotion, allowance, or charge

Code	Name
C040	Delivery
D240	Freight
F170	Pallet Exchange Charge
F340	Pick/Up
F800	Promotional Allowance
H625	Tax - Beverage Tax
I170	Trade Discount

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
SAC05	610	**Amount**	C	N2	1/15	Used	1

Description: Monetary amount

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
SAC08	118	**Rate**	C	R	1/9	Used	1

Description: Rate expressed in the standard monetary denomination for the currency specified

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
SAC15	352	**Description**	C	AN	1/80	Used	1

Description: A free-form description to clarify the related data elements and their content

Syntax Rules:

1. R0203 - At least one of SAC02 or SAC03 is required.
2. P0304 - If either SAC03 or SAC04 is present, then the other is required.
3. P0607 - If either SAC06 or SAC07 is present, then the other is required.
4. P0910 - If either SAC09 or SAC10 is present, then the other is required.
5. C1110 - If SAC11 is present, then SAC10 is required.
6. L130204 - If SAC13 is present, then at least one of SAC02 or SAC04 is required.
7. C1413 - If SAC14 is present, then SAC13 is required.

8. C1615 - If SAC16 is present, then SAC15 is required.

Semantics:

1. If SAC01 is "A" or "C", then at least one of SAC05, SAC07, or SAC08 is required.
2. SAC05 is the total amount for the service, promotion, allowance, or charge.
3. If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.
4. SAC08 is the allowance or charge rate per unit.
5. SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity.
6. SAC10 and SAC11 used together indicate a quantity range, which could be a dollar amount, that is applicable to service, promotion, allowance, or charge.
7. SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used.
8. SAC14 is used in conjunction with SAC13 to identify an option when there is more than one option of the promotion.
9. SAC16 is used to identify the language being used in SAC15.

Comments:

1. SAC04 may be used to uniquely identify the service, promotion, allowance, or charge. In addition, it may be used in conjunction to further the code in SAC02.
2. In some business applications, it is necessary to advise the trading partner of the actual dollar amount that a particular allowance, charge, or promotion was based on to reduce ambiguity. This amount is commonly referred to as "Dollar Basis Amount". It is represented in the SAC segment in SAC10 using the qualifier "DO" - Dollars in SAC09.

TDS Total Monetary Value Summary

User Option (Usage): Must use

To specify the total invoice discounts and amounts

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
TDS01	610	**Amount**	M	N2	1/15	Must use	1

Description: Monetary amount

Semantics:

1. TDS01 is the total amount of invoice (including charges, less allowances) before terms discount (if discount is applicable).
2. TDS02 indicates the amount upon which the terms discount amount is calculated.
3. TDS03 is the amount of invoice due if paid by terms discount due date (total invoice or installment amount less cash discount).
4. TDS04 indicates the total amount of terms discount.

Comments:

1. TDS02 is required if the dollar value subject to discount is not equal to the dollar value of TDS01.

CAD Carrier Detail

User Option (Usage): Must use

To specify transportation details for the transaction

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
CAD01	91	**Transportation Method/Type Code**	M	ID	1/2	Must use	1

Description: Code specifying the method or type of transportation for the shipment

Code	Name
H	Customer Pickup
M	Motor (Common Carrier)

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
CAD05	387	**Routing**	M	AN	1/35	Must use	1

Description: Free-form description of the routing or requested routing for shipment, or the originating carrier's identity

Syntax Rules:

1. R0504 - At least one of CAD05 or CAD04 is required.
2. C0708 - If CAD07 is present, then CAD08 is required.

SAC   Service, Promotion, Allowance, or Charge Information

User Option (Usage): Used

To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
SAC01	248	**Allowance or Charge Indicator**	M	ID	1/1	Must use	1

Description: Code which indicates an allowance or charge for the service specified

Code	Name
A	Allowance
C	Charge

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
SAC02	1300	**Service, Promotion, Allowance, or Charge Code**	C	ID	4/4	Used	1

Description: Code identifying the service, promotion, allowance, or charge

Code	Name
C040	Delivery
D240	Freight
F170	Pallet Exchange Charge
F340	Pick/Up
F800	Promotional Allowance
H625	Tax - Beverage Tax
I170	Trade Discount

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
SAC05	610	**Amount**	C	N2	1/15	Used	1

Description: Monetary amount

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
SAC15	352	**Description**	C	AN	1/80	Used	1

Description: A free-form description to clarify the related data elements and their content

Syntax Rules:

1. R0203 - At least one of SAC02 or SAC03 is required.
2. P0304 - If either SAC03 or SAC04 is present, then the other is required.
3. P0607 - If either SAC06 or SAC07 is present, then the other is required.
4. P0910 - If either SAC09 or SAC10 is present, then the other is required.
5. C1110 - If SAC11 is present, then SAC10 is required.
6. L130204 - If SAC13 is present, then at least one of SAC02 or SAC04 is required.
7. C1413 - If SAC14 is present, then SAC13 is required.
8. C1615 - If SAC16 is present, then SAC15 is required.

Semantics:

1. If SAC01 is "A" or "C", then at least one of SAC05, SAC07, or SAC08 is required.
2. SAC05 is the total amount for the service, promotion, allowance, or charge.

3. If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.
4. SAC08 is the allowance or charge rate per unit.
5. SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity.
6. SAC10 and SAC11 used together indicate a quantity range, which could be a dollar amount, that is applicable to service, promotion, allowance, or charge.
7. SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used.
8. SAC14 is used in conjunction with SAC13 to identify an option when there is more than one option of the promotion.
9. SAC16 is used to identify the language being used in SAC15.

Comments:
1. SAC04 may be used to uniquely identify the service, promotion, allowance, or charge. In addition, it may be used in conjunction to further the code in SAC02.
2. In some business applications, it is necessary to advise the trading partner of the actual dollar amount that a particular allowance, charge, or promotion was based on to reduce ambiguity. This amount is commonly referred to as "Dollar Basis Amount". It is represented in the SAC segment in SAC10 using the qualifier "DO" - Dollars in SAC09.

ISS Invoice Shipment Summary

User Option (Usage): Must use

To specify summary details of total items shipped in terms of quantity, weight, and volume

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
ISS01	382	**Number of Units Shipped**	M	R	1/10	Must use	1

Description: Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
ISS02	355	**Unit or Basis for Measurement Code**	M	ID	2/2	Must use	1

Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

Code	Name
CA	Case
EA	Each
UN	Unit

Dot Foods:

If there is a mixture of each and case products on the invoice, please send "UN" as the total quantity shipped UOM.

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
ISS03	81	**Weight**	M	R	1/10	Must use	1

Description: Numeric value of weight

Dot Foods: *Total gross weight*

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
ISS04	355	**Unit or Basis for Measurement Code**	M	ID	2/2	Must use	1

Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

Code	Name
LB	Pound

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
ISS05	183	**Volume**	O	R	1/8	Used	1

Description: Value of volumetric measure

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
ISS06	355	**Unit or Basis for Measurement Code**	O	ID	2/2	Used	1

Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

Code	Name
CF	Cubic Feet

Syntax Rules:

1. R010305 - At least one of ISS01, ISS03 or ISS05 is required.
2. P0102 - If either ISS01 or ISS02 is present, then the other is required.
3. P0304 - If either ISS03 or ISS04 is present, then the other is required.

4. P0506 - If either ISS05 or ISS06 is present, then the other is required.

Semantics:

1. ISS07 is the quantity of third party pallets.
2. ISS08 is the gross weight of third party pallets in pounds.

SE   Transaction Set Trailer

User Option (Usage): Must use

To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
SE01	96	**Number of Included Segments**	M	N0	1/10	Must use	1
		Description: Total number of segments included in a transaction set including ST and SE segments					
SE02	329	**Transaction Set Control Number**	M	AN	4/9	Must use	1
		Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set					

Comments:

1. SE is the last segment of each transaction set.

GE Functional Group Trailer

User Option (Usage): Must use

To indicate the end of a functional group and to provide control information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
GE01	97	**Number of Transaction Sets Included**	M	N0	1/6	Must use	1
		Description: Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element					
GE02	28	**Group Control Number**	M	N0	1/9	Must use	1
		Description: Assigned number originated and maintained by the sender					

Semantics:

1. The data interchange control number GE02 in this trailer must be identical to the same data element in the associated functional group header, GS06.

Comments:

1. The use of identical data interchange control numbers in the associated functional group header and trailer is designed to maximize functional group integrity. The control number is the same as that used in the corresponding header.

IEA Interchange Control Trailer

User Option (Usage): Must use

To define the end of an interchange of zero or more functional groups and interchange-related control segments

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
IEA01	I16	**Number of Included Functional Groups**	M	N0	1/5	Must use	1
		Description: A count of the number of functional groups included in an interchange					
IEA02	I12	**Interchange Control Number**	M	N0	9/9	Must use	1
		Description: A control number assigned by the interchange sender					